

Professor Encke adds the following elements calculated from the Berlin observations of June 7, 9, 10:—

Dr. Brunnow.			M. d'Arrest.		
Perihelion Passage, 1845, June 5 <sup>h</sup> 63 <sup>m</sup> 32 <sup>s</sup> ·8			June 5 <sup>h</sup> 71 <sup>m</sup> 85 <sup>s</sup> ·4, Berlin.		
Perihelion.....	262° 49' 3"·3	} 1845° 0	262° 1' 20"·8	} 1845° 0	
Node.....	338 41 32·5		337 49 21·5		
Inclination.....	49 12 56·5		48 55 1·6		
Log $q$	9·601902		9·603214		
Retrograde.					

## 2. Communication dated 1845, June 20.

Name of Comet.	Place of Observation and Observer.	Day.	Mean Solar Time at Place of Observation.	Observed Right Ascension of Comet.	Observed Declination of Comet.
Mauvais (Second).	Geneva: Prof. Plan-tamour.	1845. Feb. 4	<sup>h</sup> <sup>m</sup> <sup>s</sup> 8 13 35·2	<sup>h</sup> <sup>m</sup> <sup>s</sup> 2 58 4·82	—21° 56' 18"·8
		5	7 27 44·7	2 57 47·75	21 23 38·4
		27	7 27 36·0	2 59 9·25	11 53 46·0
d'Arrest.	Altona: Prof. Schu-macher.	Feb. 7	11 31 3·65	16 28 50·26	+60 55 26·6
		27	10 57 27·50	9 50 58·45	17 10 22·6
		Mar. 9	9 4 11·10	9 16 24·34	+ 0 0 52·8
		12	10 30 54·70	9 11 22·28	— 2 57 18·7
De Vico (Second).	Altona: Prof. Schu-macher.	Mar. 31	8 51 36·90	8 18 35·92	+ 8 3 43·4
		April 1	9 3 56·67	8 15 49·89	6 23 24·9
		2	8 57 29·00	8 13 15·55	4 46 58·3
		3	8 28 40·30	8 10 52·80	3 14 35·9
Colla.	Altona: Prof. Schu-macher.	June 10	Sidereal Time. 15 7 42·7 15 8 57·8	5 58 7·64	+45 17 9·0
Colla.	Göttingen: Prof. Gauss.	June 12	Mean Time. 13 12 59·9	99° 26' 5"·4	+43 56 53·6

The first three of the above sets of observations are cleared of refraction and parallax: the fourth set is cleared of refraction. No remark is made on the Göttingen observation.

## 3. Communication dated 1845, July 15.

M. d'Arrest has calculated the following elements of Colla's comet from three normal places of June 7, 11, 15.

Perihelion Passage, 1845, June 5<sup>h</sup> 72<sup>m</sup> 16<sup>s</sup>·48, Berlin Mean Time.

Perihelion.....	261° 59' 58"·47	} Mean Equinox, Jan. o.
Node.....	337 48 17·27	
Inclination ....	48 54 29·10	
Log. $q$	9·6032599	
	Retrograde.	

## Observed places of Colla's comet :

Place of Observation and Observer.	Day.	Mean Solar Time at Place of Observation.	Observed Right Ascension of Comet.	Observed Declination of Comet.	No. of Obs.
Altona : M. Petersen.	1845. June 10	h m s 12 41 23.1	90° 4' 27".2	+45° 14' 34".3	12
	11	12 33 6.2	94 52 15.6	.....	5
		12 37 45.2	.....	44 43 34.1	5
	13	11 17 20.7	103 8 28.4	43 5 1.6	2
	15	11 17 43.4	(110 1 15.7)	(40 52 24.7)	7
		11 34 53.4	110 3 36.6	40 51 39.5	1
	17	11 19 16.0	(115 27 12.0)	38 27 5.9	4
		11 37 53.4	115 29 25.5	38 26 9.9	1
	20	11 15 44.1	121 30 19.8	+34 52 10.6	1
Vienna : Dr. Felix and M. Hornstein.	June 11	11 24 23.0	94 33 56.6	+44 46 18.8	8
	12	10 9 20.8	98 48 45.7	44 4 16.0	7
	17	10 56 44.5	115 22 24.0	38 29 38.8	3
	18	10 31 34.7	117 35 53.9	37 18 1.6	7
Bonn : Prof. Argelander.	June 10	10 32 16.3	89 39 44.9	+45 16 28.3	6
		11 7 1.7	89 47 8.9	45 15 55.3	5
	11	10 32 7.6	94 30 54.7	44 46 39.9	3
		10 41 20.7	94 32 38.0	44 46 32.6	1
	12	10 21 23.7	98 57 30.1	44 2 27.4	5
		10 54 29.4	99 3 11.1	44 1 32.1	5
		11 29 57.8	99 9 29.4	44 0 10.2	6
	15	10 36 10.4	109 57 30.6	40 53 45.0	8
		11 7 51.1	110 1 42.0	40 52 8.5	2
		11 34 15.9	110 4 49.1	40 50 52.9	4
	16	10 40 20.8	112 51 10.0	+39 41 55.5	6

The Vienna observations are cleared of refraction.